

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for assigning priorities, comprising:
under control of a primary control unit,
receiving a request to manipulate data;
determining a type of the request, wherein the type of the request includes a synchronous copy command, an asynchronous copy command, and an establish with copy command;
assigning a priority to the request based on the type of the request by:
assigning the request a high priority when the type of the request is the synchronous copy command and a host has not assigned a priority to the request;
assigning the request a medium priority when the type of the request is the asynchronous copy command; and
assigning the request a low priority when the type of the request is the establish with copy command; and
sending a command to a secondary control unit, wherein the command includes the request and the assigned priority, wherein the primary control unit and the secondary control unit allocate resources to handle the request based on the assigned priority; and
under control of the secondary control unit, using the priority assigned to the request by the primary control unit to process the request.
2. (Original) The method of claim 1, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and further comprising:
assigning the request a high priority.
3. (Original) The method of claim 1, wherein the request is issued with an asynchronous Peer-to-Peer Remote Copy command and further comprising:
assigning the request a medium priority.

4. (Previously Presented) The method of claim 1, wherein the request is issued with an Extended Distance Peer-to-Peer Remote Copy command and further comprising:
assigning the request a medium priority.

5. (Original) The method of claim 1, wherein the request is issued with an establish with copy command and further comprising:
assigning the request a low priority.

6. (Previously Presented) The method of claim 1, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and further comprising:
receiving a host priority with the request; and
mapping the host priority to a priority in a high priority range having multiple priority values based on the host priority, pending Input/Output (I/O) requests, and available resources.

7. (Currently Amended) The method of claim 1, further comprising:
mapping [[the]] a host priority based on the host priority and one of pending requests and available resources.

8. (Original) The method of claim 1, further comprising:
updating a priority for a pending request.

9. (Cancelled)

10. (Cancelled)

11-30. (Cancelled)

31. (Currently Amended) An article of manufacture comprising a computer readable medium storing code including program logic for assigning priorities, wherein the program logic code is executed on a processor of a computer and causes operations to be performed, the operations comprising:

under control of a primary control unit,
receiving a request to manipulate data;
determining a type of the request, wherein the type of the request includes a
synchronous copy command, an asynchronous copy command, and an establish with copy
command;

assigning a priority to the request based on the type of the request by:

assigning the request a high priority when the type of the request is the
synchronous copy command and a host has not assigned a priority to the request;

assigning the request a medium priority when the type of the request is the
asynchronous copy command; and

assigning the request a low priority when the type of the request is the
establish with copy command; and

sending a command to a secondary control unit, wherein the command includes
the request and the assigned priority, wherein the primary control unit and the secondary
control unit allocate resources to handle the request based on the assigned priority; and
under control of the secondary control unit, using the priority assigned to the request by
the primary control unit to process the request.

32. (Previously Presented) The article of manufacture of claim 31, wherein the
request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the
operations for assigning further comprise:

assigning the request a high priority.

33. (Previously Presented) The article of manufacture of claim 31, wherein the
request is issued with an asynchronous Peer-to-Peer Remote Copy command and wherein the
operations for assigning further comprise:

assigning the request a medium priority.

34. (Previously Presented) The article of manufacture of claim 31, wherein the
request is issued with an Extended Distance Peer-to-Peer Remote Copy command and wherein
the operations for assigning further comprise:

assigning the request a medium priority.

35. (Previously Presented) The article of manufacture of claim 31, wherein the request is issued with an establish with copy command and wherein the operations for assigning further comprise:

assigning the request a low priority.

36. (Previously Presented) The article of manufacture of claim 31, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the operations further comprise:

receiving a host priority with the request; and

mapping the host priority to a priority in a high priority range having multiple priority values based on the host priority, pending Input/Output (I/O) requests, and available resources.

37. (Currently Amended) The article of manufacture of claim 31, wherein the operations further comprise:

mapping [[the]] a host priority based on the host priority and one of pending requests and available resources.

38. (Previously Presented) The article of manufacture of claim 31, wherein the operations further comprise:

updating a priority for a pending request.

39. (Currently Amended) A system for assigning priorities, comprising:

under control of a primary control unit, hardware logic for:

receiving a request to manipulate data;

determining a type of the request, wherein the type of the request includes a synchronous copy command, an asynchronous copy command, and an establish with copy command;

assigning a priority to the request based on the type of the request by:

assigning the request a high priority when the type of the request is the synchronous copy command and a host has not assigned a priority to the request;
assigning the request a medium priority when the type of the request is the asynchronous copy command; and
assigning the request a low priority when the type of the request is the establish with copy command; and

sending a command to a secondary control unit, wherein the command includes the request and the assigned priority, wherein the primary control unit and the secondary control unit allocate resources to handle the request based on the assigned priority; and under control of the secondary control unit, using the priority assigned to the request by the primary control unit to process the request.

40. (Previously Presented) The system of claim 39, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the hardware logic for assigning further comprises:

assigning the request a high priority.

41. (Previously Presented) The system of claim 39, wherein the request is issued with an asynchronous Peer-to-Peer Remote Copy command and wherein the hardware logic for assigning further comprises:

assigning the request a medium priority.

42. (Previously Presented) The system of claim 39, wherein the request is issued with an Extended Distance Peer-to-Peer Remote Copy command and wherein the hardware logic for assigning further comprise:

assigning the request a medium priority.

43. (Previously Presented) The system of claim 39, wherein the request is issued with an establish with copy command and wherein the hardware logic for assigning further comprise:

assigning the request a low priority.

44. (Previously Presented) The system of claim 39, wherein the request is issued with a synchronous Peer-to-Peer Remote Copy command and wherein the hardware logic further comprises:

receiving a host priority with the request; and
mapping the host priority to a priority in a high priority range having multiple priority values based on the host priority, pending Input/Output (I/O) requests, and available resources.

45. (Currently Amended) The system of claim 39, wherein the hardware logic further comprises:

mapping [[the]] a host priority based on the host priority and one of pending requests and available resources.

46. (Previously Presented) The system of claim 39, wherein the hardware logic further comprises:

updating a priority for a pending request.